

AD-A070 558

ARMY ELECTRONICS COMMAND WHITE SANDS MISSILE RANGE N--ETC F/G 4/2
19304D GSRS, MISSILE NUMBER 1023, ROUND NUMBER V-23.(U)
APR 79

UNCLASSIFIED

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Meteorological data gathered for the launching of 19304D GSRS, Missile Number 1023, Round V-23, are presented in tabular form. ↑		

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INTRODUCTION

19304D GSRS , Missile Number 1023 , Round Number V-23 , was launched from LC-33, White Sands Missile Range (WSMR), New Mexico, at 1517 MST, 24 April 1979 . The scheduled launch time was 1515 MST.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

a. Surface

(1) Standard surface observations to include pressure, temperature ($^{\circ}\text{C}$), relative humidity, dew point ($^{\circ}\text{C}$), density (gm/m^3), wind direction and speed, and cloud cover were made at the LC-33 Met Site at T-0 minutes.

(2) Anemometer data were provided from existing pole-mounted and tower-mounted anemometers at LC-33. Monitor of wind speed and direction from one anemometer was also provided in the launch control room.

b. Upper Air

(1) Low level wind data were obtained from RAPTS T-9 pibal observation at:

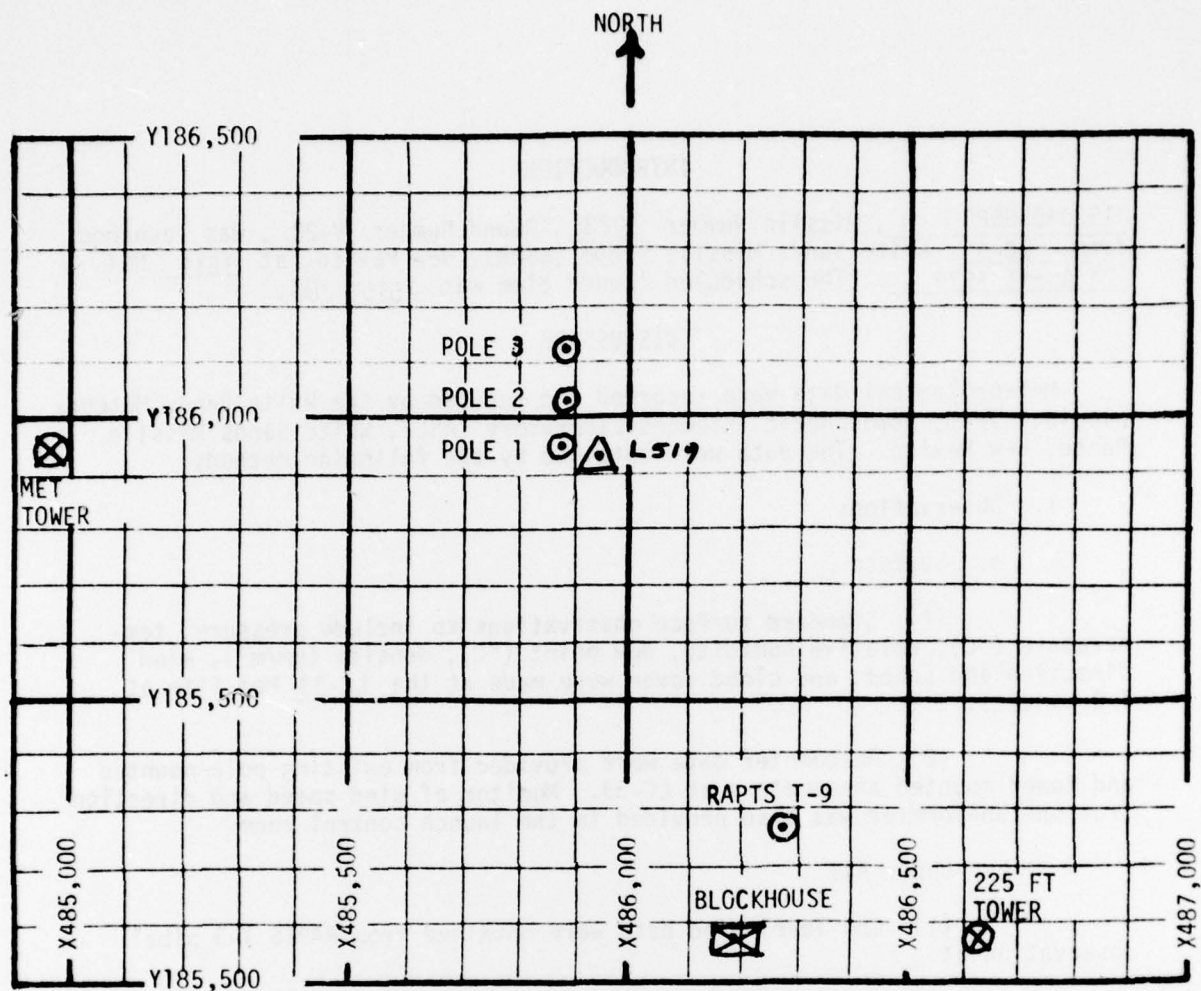
SITE AND ALTITUDE

LC-33 1 kilometer (50-meter increments)

(2) Air structure data (rawinsonde) were collected at the following Met Sites. Data were collected from surface to 53,500 feet in 500-foot increments.

SITE AND TIME

SMR 1530 MST



1. MET TOWER - 4 Bendix Model T-120 Anemometers at 12 ft, 62 ft, 102 ft and 202 ft with E/A recorders.
2. POLE ANEMOMETER - Bendix Model T-120 with E/A recorders.
 - (a) Pole #1 - 38.7 ft
 - (b) Pole #2 - 53.0 ft
 - (c) Pole #3 - 83.6 ft
3. 225 FT WIND TOWER - 5 Bendix Model T-120 Anemometers at 35 ft, 88 ft, 128 ft, 168 ft and 200 ft with 5 X-Y visual indicators in Blockhouse.
4. RAPTS T-9 - Radar Automatic Pilot-Balloon Tracking System T-9 Radar

The data are presented in the following tabulations:

ELEVATION	3977.30	FT/MSL
PRESSURE	893.9	MBS
TEMPERATURE	28.6	°C
RELATIVE HUMIDITY	26	%
DEW POINT	7.1	°C
DENSITY	1003	GM/M ³
WIND SPEED	10	MPH
WIND DIRECTION	270	DEGREES
CLOUD COVER	3	Cs

TABLE I. SURFACE OBSERVATIONS TAKEN AT 1520 LOCAL TIME,
24 APRIL 1979 AT LC-33, 19304D GSRS, MISSILE
NO. 1023, ROUND NO. V-23.

LC-33 FIXED POLE ANEMOMETER MEASURED WINDS

POLE #1			POLE #2			POLE #3		
T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR DEG	SPEED MPH
-30	265	17	-30	282	16	-30	257	18
-20	267	19	-20	282	17	-20	261	25
-10	267	19	-10	284	15	-10	258	25
0.0	272	20	0.0	289	14	0.0	270	27
+10	273	18	+10	291	13	+10	273	28

POLE #1 = X485,874.29 Y185,958.90 H4018.74 38.7 ft. AGL

POLE #2 = X485,874.93 Y186,012.00 H4033.57 53.0 ft. AGL

POLE #3 = X485,877.29 Y186,116.06 H4063.92 83.6 ft. AGL

TABLE II

TYPE 19304D GSRS MISSILE NO. 1023 POUND NO. V-23

LAUNCHED FROM LC-33 DATE 24 April 1979 TIME 1517 LST

NOTE: WIND DIRECTIONS ARE REFERENCED TO THE FIRING AZIMUTH

OR TRUE NORTH TRUE NORTH

LC-33 METEOROLOGICAL TOWER ANEMOMETER MEASURED WINDS (202 FT TOWER)

LEVEL #1 12 ft			LEVEL #2 62 ft		
T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR DEG	SPEED MPH
-30	268	17	-30	259	18
-20	273	18	-20	270	16
-10	280	15	-10	273	17
0.0	280	16	0.0	259	14
+10	288	13	+10	264	10
LEVEL #3 102 ft			LEVEL #4 202 ft		
T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR DEG	SPEED MPH
-30	274	22	-30	257	21
-20	285	23	-20	270	22
-10	280	18	-10	273	20
0.0	283	17	0.0	261	17
+10	267	17	+10	270	17

WTSM COORDINATES: X484,082.64 Y185,957.73 H3983.00 (base)

TABLE III

TYPE 19304D GSRS MISSILE NO. 1023 ROUND NO. V-23
 LAUNCHED FROM LC-33 DATE 24 April 1979 TIME 1517 MST
 NOTE: WIND DIRECTIONS ARE REFERENCED TO THE FIRING AZIMUTH _____
 OR TRUE NORTH TRUE NORTH

PILOT BALLOON MEASURED WIND DATA

HEIGHT METERS	DIR DEG	SPEED MPH
SUR	270	10.0
50	270	12.0
100	269	14.8
150	267	22.1
200	272	27.5
250	270	29.3
300	265	30.6
350	266	30.9
400	266	23.6
450	262	21.3
500	263	23.7

HEIGHT METERS	DIR DEG	SPEED MPH
550	270	25.8
600	271	26.9
650	270	30.5
700	271	30.0
750	270	27.5
800	269	30.5
850	277	25.7
900	270	24.6
950	269	24.2
1000	281	26.5
1050		

TABLE IV

RELEASED FROM LC-33 DATE 24 April 1979 TIME 1516 LST
 RELEASE POINT COORDINATES (WSTM) X = 486,037.24 Y = 182,350.16 H = 3977.30
 MISSILE TYPE 19304D GSRS MISSILE NO. 1023 ROUND NO. V-23
 MISSILE LAUNCHED FROM LC-33 DATE 24 April 1979 TIME 1517 LST
 NOTE: WIND DIRECTIONS ARE REFERENCED TO THE FIRING AZIMUTH _____
 OR TRUE NORTH TRUE NORTH.

GEODETTIC COORDINATES
32.48034 LAT DEG
106.42307 LON DEG

SIGNIFICANT LEVEL DATA
1140060073
S M R

STATION ALTITUDE 3997.30 FEET MSL
24 APR. 79
ASCENSION NO. 73

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	AIR TEMPERATURE DEGREES CENTIGRADE	DEWPOINT TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	
872.9	3997.3	29.0	-5.7	10.0
863.5	4311.3	27.6	.4	17.0
850.0	4767.3	25.4	-5	18.0
830.0	5450.6	23.4	-1.5	19.0
770.5	7543.4	17.0	-6.8	19.0
700.0	10202.0	9.3	-11.9	21.0
658.8	11837.7	4.0	-13.5	27.6
606.2	14036.6	-1.9	-16.7	31.0
581.0	15145.3	-2.5	-19.3	26.0
524.6	17737.3	-6.8	-26.5	19.0
500.0	19012.6	-10.0	-26.2	25.0
456.0	21322.2	-16.0	-30.6	27.0
420.6	23310.8	-19.7	-31.8	33.0
400.0	24530.3	-22.8	-30.5	49.0
367.2	26571.7	-23.6	-32.5	68.0
342.0	28234.5	-22.6	-42.3	37.0
300.0	31221.5	-40.9	-50.1	36.0
250.0	35214.4	-51.3		
200.0	39899.7	-59.8		
185.2	41458.9	-53.6		
164.2	43097.1	-84.7		
159.4	44276.8	-83.8		
150.0	45721.6	-84.7		
141.4	46904.5	-66.7		
130.6	48433.1	-65.6		
123.6	49605.0	-62.8		
116.8	50752.2	-63.6		
106.6	52513.0	-61.0		
103.2	53275.9	-62.1		
100.0	53918.9	-61.7		

STATION ALTITUDE 3997.30 FEET MSL
24 APR. 79 1530 HRS MST
ASCENSION NO. 73

UPPER AIR DATA
1140000073
S M R

GEODETTIC COORDINATES
32.48034 LAT DEG
100.442307 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
3997.3	872.9	29.0	10.0	1004.7	677.8	280.0	15.0	1.000240
4000.0	872.8	29.0	10.1	1004.6	677.8	280.0	15.0	1.000241
4500.0	857.9	26.7	17.4	994.1	675.5	276.8	18.2	1.000247
5000.0	843.1	24.7	18.3	983.5	673.2	274.6	21.4	1.000244
5500.0	828.6	23.2	19.0	971.4	671.5	273.0	24.6	1.000240
6000.0	814.0	21.7	19.0	959.5	669.7	271.7	27.9	1.000235
6500.0	799.8	20.2	19.0	947.8	667.9	270.6	26.3	1.000231
7000.0	785.8	18.7	19.0	930.2	666.2	269.3	23.6	1.000227
7500.0	772.0	17.1	19.0	924.8	664.4	267.7	20.9	1.000223
8000.0	758.2	15.7	19.3	912.9	662.7	265.7	18.9	1.000219
8500.0	744.5	14.2	19.7	901.1	661.0	263.4	17.6	1.000215
9000.0	731.2	12.8	20.1	889.5	659.3	260.8	16.4	1.000212
9500.0	716.0	11.3	20.5	878.0	657.9	257.7	15.1	1.000208
10000.0	705.1	9.9	20.8	866.7	655.9	255.4	14.9	1.000205
10500.0	692.3	8.3	22.1	855.7	654.0	253.3	15.1	1.000202
11000.0	679.6	6.7	23.9	844.8	652.2	251.3	15.3	1.000200
11500.0	667.1	5.1	25.8	834.2	650.3	249.6	15.6	1.000197
12000.0	654.8	3.6	27.3	823.3	648.5	249.3	16.2	1.000194
12500.0	642.5	2.2	28.2	811.8	646.9	248.8	16.8	1.000191
13000.0	630.5	.9	29.1	800.5	645.3	248.3	16.3	1.000188
13500.0	618.6	-1.5	30.0	789.5	643.7	247.8	19.9	1.000185
14000.0	607.0	-3.1	30.9	778.5	642.1	248.5	21.9	1.000182
14500.0	595.5	-4.7	31.9	764.8	641.6	249.6	24.2	1.000178
15000.0	584.2	-6.4	32.7	751.1	641.5	250.4	26.1	1.000174
15500.0	573.1	-8.1	33.7	738.0	640.5	250.5	26.1	1.000171
16000.0	562.1	-9.8	34.7	726.7	639.5	250.5	26.2	1.000168
16500.0	551.4	-11.5	35.7	715.0	638.5	252.5	26.9	1.000164
17000.0	540.8	-13.2	36.7	703.5	637.5	254.7	27.5	1.000161
17500.0	530.5	-14.9	37.7	692.2	636.5	259.1	28.6	1.000158
18000.0	520.2	-16.6	38.7	681.5	635.3	261.3	29.7	1.000156
18500.0	510.1	-18.3	39.7	671.5	633.7	264.8	30.5	1.000153
19000.0	500.2	-20.0	40.7	661.8	632.2	267.7	31.4	1.000151
19500.0	490.4	-21.7	41.7	652.0	630.6	270.8	33.6	1.000149
20000.0	480.7	-23.4	42.7	642.3	629.0	273.5	36.0	1.000146
20500.0	471.2	-25.1	43.7	632.8	627.5	275.2	37.9	1.000144
21000.0	461.9	-26.8	44.7	623.5	625.9	276.7	39.8	1.000142
21500.0	452.7	-28.5	45.7	613.9	624.3	277.9	43.7	1.000139
22000.0	443.6	-30.2	46.7	603.7	623.3	278.6	48.1	1.000137
22500.0	434.7	-31.9	47.7	593.7	622.4	279.2	47.1	1.000135
23000.0	425.9	-33.6	48.7	583.9	621.0	274.1	45.6	1.000133

STATION ALTITUDE 3997.30 FEET MSL
 24 APR. 79 1530 HRS NST
 ASCENSION NO. 73

UPPER AIR DATA
 1140060073
 S M R

GEODETIC COORDINATES
 32.48034 LAT DEG
 106.42307 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
43500.0	417.3	-20.2	35.5	574.5	619.7	272.6	42.8	1.000131
43000.0	408.8	-21.5	42.0	565.9	618.2	272.8	43.5	1.000129
42500.0	400.5	-22.7	46.6	556.9	616.9	274.1	46.4	1.000127
42000.0	392.2	-24.1	52.4	548.4	614.9	273.9	48.7	1.000125
41500.0	384.1	-25.6	56.0	540.2	613.1	273.1	50.7	1.000123
41000.0	376.1	-27.0	62.7	532.0	611.4	274.2	50.7	1.000121
40500.0	368.3	-28.4	67.3	524.0	609.6	275.2	49.7	1.000119
40000.0	360.5	-29.6	60.0	515.6	609.0	273.7	48.8	1.000117
39500.0	352.9	-30.8	50.7	507.2	609.5	285.6	48.2	1.000115
39000.0	345.4	-32.0	41.4	499.0	605.0	289.6	48.2	1.000112
38500.0	338.0	-33.3	36.9	491.0	603.3	289.4	48.7	1.000110
38000.0	330.7	-34.7	36.7	483.1	601.5	289.5	49.8	1.000108
37500.0	323.5	-36.1	36.6	475.4	599.8	289.2	51.4	1.000107
37000.0	316.5	-37.5	36.4	467.9	598.1	290.2	54.1	1.000105
36500.0	309.6	-38.9	36.2	460.4	596.3	291.3	56.9	1.000103
36000.0	302.9	-40.3	36.1	453.1	594.5	290.2	57.9	1.000101
35500.0	296.2	-41.6	33.5**	445.7	592.6	283.8	58.6	1.000100
35000.0	289.5	-42.9	28.0**	438.1	591.1	285.7	60.0	1.000098
34500.0	283.0	-44.2	24.5**	430.9	589.4	283.8	61.5	1.000096
34000.0	276.6	-45.5	20.0**	423.3	587.8	290.3	63.2	1.000094
33500.0	270.4	-46.8	15.5**	415.1	586.1	291.8	64.8	1.000093
33000.0	264.3	-48.1	10.9**	409.1	584.4	292.6	66.0	1.000091
32500.0	258.3	-49.4	6.4**	402.2	582.7	294.9	67.3	1.000090
32000.0	252.5	-50.7	1.9**	395.4	581.0	295.9	68.6	1.000088
31500.0	246.6	-51.6		388.2	579.5	297.2	72.2	1.000086
31000.0	240.9	-52.7		380.6	578.4	298.5	76.6	1.000085
30500.0	235.2	-53.6		373.2	577.2	299.9	81.4	1.000083
30000.0	229.6	-54.5		365.9	576.0	301.1	86.3	1.000081
29500.0	224.2	-55.4		358.6	574.8	301.8	91.0	1.000080
29000.0	218.9	-56.4		351.6	573.6	302.4	95.7	1.000078
28500.0	213.9	-57.3		345.0	572.4	302.5	99.6	1.000077
28000.0	208.6	-58.2		338.3	571.2	302.6	103.4	1.000075
27500.0	203.8	-59.1		331.7	570.0	303.1	104.5	1.000074
27000.0	199.0	-60.0		325.3	568.7	303.8	104.7	1.000072
26500.0	194.2	-61.3		319.3	567.1	304.3	104.3	1.000071
26000.0	189.5	-62.5		313.3	565.5	304.7	103.1	1.000070
25500.0	184.9	-63.6		307.4	563.9	305.7	103.9	1.000068
25000.0	180.4	-63.8		300.2	563.5	304.1	105.7	1.000067
24500.0	176.0	-64.1		293.2	563.3	301.5	110.0	1.000065
24000.0	171.7	-64.3		286.3	563.0	299.4	112.1	1.000064

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 3997.30 FEET MSL				UPPER AIR DATA				GEODETIC COORDINATES			
24 APR. 79				1140050073				32.46034 LAT DEG			
ASCENSION NO. 73				S M R				106.42307 LON DEG			
GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS		WIND DATA		INDEX OF REFRACTION	
		AIR DEGREES	DEWPOINT CENTIGRADE			DIRECTION DEGREES(TN)	SPEED KNOTS				
43500.0	167.5	-64.5			279.9	562.7		299.4	109.5	1.000062	
44000.0	163.4	-64.5			272.9	562.6		299.6	105.0	1.000061	
44500.0	159.4	-64.1			265.9	563.2		300.4	94.6	1.000059	
45000.0	155.5	-63.9			258.9	563.5		301.4	84.4	1.000058	
45500.0	151.7	-64.5			253.2	562.8		301.6	76.1	1.000056	
46000.0	147.9	-65.2			247.5	561.8		301.6	67.8	1.000055	
46500.0	144.3	-66.0			242.7	560.7		300.3	65.3	1.000054	
47000.0	140.7	-66.6			237.4	559.9		298.6	62.9	1.000053	
47500.0	137.3	-66.3			231.1	560.3		297.0	60.5	1.000051	
48000.0	133.9	-65.9			225.0	560.6		295.4	58.2	1.000050	
48500.0	130.6	-65.6			219.1	561.3		292.9	54.6	1.000049	
49000.0	127.4	-64.3			212.5	563.0		290.0	50.9	1.000047	
49500.0	124.2	-63.1			206.0	564.7		285.2	49.8	1.000046	
50000.0	121.2	-63.1			201.1	564.8		280.3	49.4	1.000045	
50500.0	118.3	-63.6			196.6	564.0		273.7	52.4	1.000044	
51000.0	115.4	-63.4			191.7	564.2		277.4	55.3	1.000043	
51500.0	112.6	-62.7			186.3	565.2		278.9	58.3	1.000041	
52000.0	109.9	-61.9			181.2	566.2		280.3	61.3	1.000040	
52500.0	107.2	-61.2			176.2	567.2				1.000039	
53000.0	104.6	-61.6			172.3	568.6				1.000038	
53500.0	102.1	-62.0			168.4	566.2				1.000037	

STATION ALTITUDE 3997.30 FEET MSL

24 APR. 79

ASCENSION NO. 73

MRN SIGNIFICANT LEVEL DATA

114-0000073

S M R

GEODETIC COORDINATES

32.48034 LAT DEG

106.42307 LON DEG

GEOPOTENTIAL ALTITUDE DECA METERS	DIRECTION DEG (TN)	SPEED MPS	WIND DATA		E-W MPS	DEW PT DEP DEG C	TEMPERATURE		PRESSURE MILLIBARS
			N-S MPS				AIR DEG C		
1630.	9999.**	9999.**	-9999.**		-9999.**	99	-61.7		1.000+2

** WIND DATA NOT COMPUTED DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 3927.30 FEET MSL
24 APR. 79
ASCENSION NO. 73

MANDATORY LEVELS
1140060076
S M R

GEODETTIC COORDINATES
22.46034 LAT DEG
106.42307 LON DEG

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM.	WIND DATA	
MILLIBARS	FEET	AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE	PERCENT	DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	4764.	25.4	-6	18.	275.5	19.9
800.0	6492.	20.2	-4.1	19.	270.9	26.4
750.0	8298.	14.8	-8.2	20.	264.3	18.2
700.0	10192.	9.3	-11.9	21.	254.0	15.0
650.0	12183.	3.0	-13.9	28.	249.1	15.5
600.0	14286.	-2.0	-17.3	30.	249.2	23.3
550.0	16546.	-4.8	-23.1	32.	252.8	26.9
500.0	18986.	-10.0	-26.2	25.	267.8	31.4
450.0	21617.	-16.6	-30.8	26.	276.2	45.0
400.0	24490.	-22.8	-30.5	49.	274.1	46.5
350.0	27646.	-31.3	-38.8	47.	267.9	48.1
300.0	31160.	-40.9	-50.1	36.	289.9	58.2
250.0	35136.	-51.3			296.3	69.5
200.0	39604.	-59.8			303.6	104.7
175.0	42506.	-64.1			300.2	110.8
150.0	45593.	-64.7			301.7	72.8
125.0	49236.	-63.4			266.6	50.1
100.0	53753.	-61.7				

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 3997.30 FEET MSL
 24 APR. 79 1530 HRS MST
 ASCENSION NO. 73

VRN. MANDATORY LEVELS
 1140060073
 S M R

GEODETTIC COORDINATES
 32.48034 LAT DEG
 106.42307 LONG DEG

GEOPOTENTIAL ALTITUDE DECEMETERS	DIRECTION DEG (TN)	WIND DATA		E-W MPS	DEW PT DEP DEG C	TEMPERATURE		PRESSURE MILLIBARS
		SPEED MPS	N-S MPS			AIR DEG C		
1638.	9999.**	9999.**	-9999.**	-9999.**	99	-61.7		1.000+2
1501.	287.	28.	-7.	23.	99	-63.4		1.250+2
1390.	302.	37.	-20.	32.	99	-64.7		1.500+2
1296.	300.	57.	-29.	49.	99	-64.1		1.750+2
1213.	304.	54.	-30.	45.	99	-59.8		2.000+2
1071.	296.	36.	-16.	32.	99	-51.3		2.500+2
950.	290.	30.	-10.	28.	09	-40.9		3.000+2
843.	288.	23.	-8.	24.	08	-31.3		3.500+2
746.	274.	24.	-2.	24.	08	-22.8		4.000+2
659.	278.	23.	-3.	23.	14	-19.6		4.500+2
579.	268.	16.	1.	16.	16	-10.0		5.000+2
504.	253.	14.	4.	13.	18	-4.8		5.500+2
436.	249.	12.	4.	11.	15	-2.0		6.000+2
371.	249.	8.	3.	8.	17	3.0		6.500+2
311.	255.	9.	2.	7.	21	9.3		7.000+2
253.	264.	9.	1.	9.	23	14.8		7.500+2
198.	271.	14.	-0.	14.	24	20.2		8.000+2
143.	276.	10.	-1.	10.	26	25.4		8.500+2

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** WIND DATA NOT COMPUTED DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.